

## CLAIMS

1. A base station apparatus comprising:

a line quality prediction section for predicting radio line quality in each communication terminal apparatus based on a report value indicating the state of a propagation path,

a first scheduler for carrying out scheduling of determining a communication terminal apparatus as a packet destination in each time slot based on prediction results of this line quality prediction section,

a second scheduler for carrying out scheduling of determining a communication terminal apparatus as a packet destination in the time slot to which a packet to be retransmitted is assigned in said first scheduler, based on the prediction results of said line quality prediction section, and

a transmission section for transmitting a packet in accordance with the scheduling of said first scheduler or said second scheduler.

2. The base station apparatus as claimed in claim 1, wherein the first scheduler assigns a communication terminal apparatus with the best line quality in each time slot, and

said second scheduler assigns a communication terminal apparatus with the best line quality except for the communication terminal apparatus assigned in said first scheduler.

3. The base station apparatus as claimed in claim 1, wherein the transmission section transmits the packet in the time slot to which

the packet to be retransmitted is assigned, in accordance with the scheduling of the first scheduler when retransmission is required from the communication terminal apparatus to which the packet has been transmitted, or in accordance with the scheduling of the second  
5 scheduler when no retransmission is required.

4. A packet transmission method comprising:

a step of carrying out a first scheduling of determining a communication terminal apparatus as a packet destination in each time  
10 slot based on prediction results of radio line quality in each communication terminal apparatus,

a step of carrying out a second scheduling of determining a preliminary communication terminal as a packet destination in a time slot to which a packet to be retransmitted is assigned, and

15 a step of transmitting a packet in accordance with said first scheduler or said second scheduler.

5. The packet transmission method as claimed in claim 4, further comprising transmitting the packet in the time slot to which the packet  
20 to be retransmitted is assigned, in accordance with the scheduling of the first scheduler when retransmission is required from the communication terminal apparatus to which the packet has been transmitted, and in accordance with the scheduling of the second scheduler when no retransmission is required.